

## High Power 1550nm PM Tunable Optical Filter

High Power 1550nm PM Tunable Optical Filter is a fiber passive component which can be used to filter out a variable wavelength range from a wide wavelength bandwidth. It's based on thin film cavity filter technology, the demanded wavelength can be filtered out precisely by adjusting the manual screw. Wavelength can be tuned continuously over a wide spectral range up to 80nm, it's widely used in Fiber Optic Sensor and Optical Testing System.

### Application:

Testing System  
Fiber Optic Sensor  
ASE Control  
Lab & Research

### Features:

Low Insertion Loss  
High Resolution  
Wide Tuning Range  
High Reliability



### Specification:

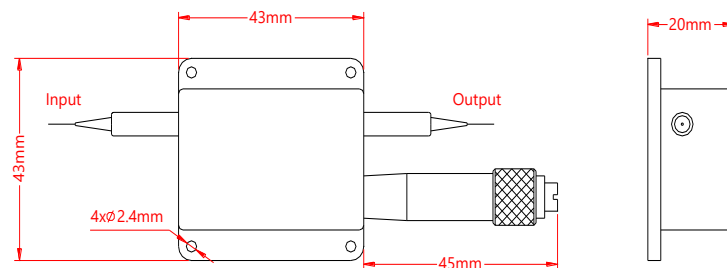
Parameter	Symbol	Value	Unit
Center Wavelength	$\lambda$	1550	nm
Tuning Range		80	nm
Tuning Resolution		0.02 (min.), 0.1 (typ.)	nm
Insertion Loss	IL	4.0 (max.), 2.5 (typ.)	dB
Bandwidth @-3dB	BW	1.2 (max.), 1.0 (typ.)	nm
Typ. Bandwidth @-20dB	BW	10	nm
Extinction Ratio	ER	18 (min.), 20 (typ.)	dB
Min. Return Loss	RL	40	dB
Max. Optical Power (CW)	P	0.5, 1, 3, 5, 10	W
Max. Tensile Load		5	N
Fiber Type		PM 1550 Panda Fiber	-
Operating Temperature	T	0~70	°C
Storage Temperature	T	-40~85	°C
Package Dimension			mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

For devices with connectors, IL will be 0.3dB higher, ER will be 2dB lower, RL will be 5dB lower.

Slow axis is default aligned to the connector key. Connectors only 1W CW optical power guarantee.

### Drawing:



### Ordering Information (Part Number):

HPMTOF-**WWWW**-**HH**-**J**-**LL**-**CC**

<b>WWWW</b>	<b>HH</b>	<b>J</b>	<b>LL</b>	<b>CC</b>
Wavelength	Handling Power	Fiber Jacket	Fiber Length	Connector
1550 - 1550nm	Z5 - 0.5W	B - 250um Bare Fiber	05 - 0.5m	NE - None
SSSS - Specify	01 - 1W	9 - 900um Loose Tube	08 - 0.8m	FA - FC/APC
	03 - 3W		10 - 1.0m	FU - FC/UPC
	05 - 5W		15 - 1.5m	SA - SC/APC
	10 - 10W		20 - 2.0m	SU - SU/APC
	SS - Specify		SS - Specify	LA - LC/APC
				LU - LC/UPC
				SS - Specify